

Section

SYNTHESIS, PROPERTIES AND STRUCTURE OF INORGANIC COMPOUNDS

1. E.A. Abramovich, A.F. Selevich. **Synthesis and characterization of ammonium-vanadium(III) double cyclophosphates $(\text{NH}_4)_2\text{V}_2\text{P}_8\text{O}_{24}$ and $(\text{NH}_4)_3\text{V}_3\text{P}_{12}\text{O}_{36}$.** Research Institute for Physical Chemical Problems, Belarusian State University, Minsk, Belarus.
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2. M.A. Avaliani, E.V. Shapakidze, V.A. Chagelishvili, G.A. Todradze. **Investigating the influence of the trivalent and monovalent metals ionic radius on the structure of the synthesized double condensed phosphates.** I. Javakhishvili Tbilisi State University, R. Agladze Institute of Inorganic Chemistry and Electrochemistry, Tbilisi, Georgia; I. Javakhishvili Tbilisi State University A. Tvalchrelidze Caucasian Institute of mineral Resources, Tbilisi, Georgia
<https://drive.google.com/file/d/1r6WGFkXPkRXi2u7A6oUMbNk17K6cQKVz/view?usp=sharing>
3. A. Bakavets, Y. Aniskevich, G. Ragoisha, N. Tsyntsaru, H. Cesiulis, E. Streltsov. **Electrochemical route to $\text{Bi-Bi}_2\text{Te}_3$ superlattice.** Research Institute for Physical Chemical Problems, Belarusian State University, Minsk, Belarus; Faculty of Chemistry, Belarusian State University, Minsk, Belarus; Vilnius University, Faculty of Chemistry and Geosciences, Vilnius, Lithuania; Institute of Applied Physics, Chisinau, Moldova JSC Elektronikos Perdirbimo Technologijos, Vilnius, Lithuania.
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4. D. Bekchanov, H. Kawakita, M. Mukhamediev, T. Savitskaya, G. Babajanova, A. Inkhanova, S. Botirov. **Kinetics sorption of $\text{Co}(\text{II})$ and $\text{Cr}(\text{III})$ ions on ion exchange resin from acidic solutions.** National University of Uzbekistan, Tashkent; Uzbekistan Saga university, Saga, Japan; Belarusian State University, Minsk, Belarus.
5. A.V. Blokhin, M.D. Kutuzau, Y.N. Yurkshtovich, M.V. Yarmolich, N.A. Kalanda, S.E. Demyanov, A.V. Petrov. **Low temperature heat capacity and phase transition parameters of strontium and barium ferromolybdates.** Belarusian State University, Belarus; Chemical Faculty, SSPA «Scientific-Practical Materials Research Centre of NAS of Belarus», Belarus Minsk, Belarus.
https://drive.google.com/file/d/1wWHy1pEW1Or4RbFbqM_ozRU8cUNUwFPN/view?usp=sharing
6. V.E. Gaishun, Y.A. Kosenok, O.I. Tulenkova, P.S. Yanochkin, T.A. Savitskaya, I.M. Kimlenko. **Colloidal silica slurries preparation by ion exchange method for microelectronics application.**
https://drive.google.com/file/d/1bp_llL7phZlnVxbpbDiLmta4sMk27ZP/view?usp=sharing
7. Y.V. Grigoriev, E.Y. Grigoriev, I.M. Grigorieva. **Synthesis of nanosized Cu, Co and Ni stabilized by poly-5-vinyltetrazole.** Research Institute for Physical Chemical Problems, Belarusian State University, Minsk, Belarus.
8. N.A. Zhuk, L.O. Karlova. **Thermal behavior and dielectric properties of $\text{Bi}_2\text{CaNb}_{2-x}\text{Fe}_x\text{O}_{9-\delta}$.** Syktyvkar State University, Syktyvkar, Russia.
9. N.A. Zhuk, L.V. Rychkova, L.S. Feltsinger, I.E. Vasileva, M.V. Arteeva, Ya.A. Busargina, E.M. Overin, L.O. Karlova, N.V. Chezhina, V.P. Lutoev, B.A. Makeev, V.A. Belyy, S.V. Nekipelov. **Mn doped BiNbO_4 ceramics: phase transitions, magnetic properties, NEXAFS and EPR spectra.** Syktyvkar State University, Syktyvkar, Komi Republic, Russia; Institute of Geology, Komi Scientific Center UB RAS, Syktyvkar, Komi Republic, Russia; Institute of Chemistry of the Komi Science Center UB RAS, Syktyvkar, Komi Republic, Russia; Institute of Physics and Mathematics of the Komi Science Center UB RAS, Syktyvkar, Komi Republic, Russia.
10. A.V. Kobets, A.A. Kudaka, V.P. Novikov, M.G. Galuza, T.N. Vorobyova. **Conductive composites based on copper- and nickel-containing powders deposited from solutions instead of silver pastes.** Research Institute for Physical Chemical Problems, Belarusian State University, Minsk, Belarus; Belarusian State University, Minsk, Belarus; SSPA “Scientific-Practical Materials Research Center of NAS of Belarus”, Minsk, Belarus.
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- 11. O.I. Kokits, U.V. Siamionau, Y.M. Aniskevich, G.A. Ragoisha, E.A. Streltsov. Metal hexacyanoferates as cathode materials for Zn-ion batteries.** Faculty of Chemistry, Belarusian State University, Minsk, Belarus; Research Institute for Physical Chemical Problems, Belarusian State University, Minsk, Belarus. <https://drive.google.com/file/d/1ZGy9A-buAB2y7ibIF-10Wsqwirghs3q0/view?usp=sharing>
- 12. A.S. Korsakova, E.V. Korobko, K.A. Shevcova, Yu.S. Haiduk, V.V. Pankov. Synthesis, structure and magnetic properties of $Mn_xFe_{3-x}O_4$ ($x = 0,1 - 0,6$) for magnetorheological liquids.** Belarusian State University, Minsk, Belarus; A.V.Luikov Heat and Mass Transfer Institute NAS of Belarus, Minsk, Belarus. <https://drive.google.com/file/d/1fdjr35VM3Sg8k4DpguXbmuuZO5gRUnYs/view?usp=sharing>
- 13. A.S. Korsakova, D.A. Kotsikau, V.V. Pankov, K.S. Livanovich, T.G. Shutava, A.V. Nikitina, Y.V. Bogachev. Nuclear magnetic resonance relaxation efficiency of $Mn_{0,3}Fe_{2,7}O_4$ magnetic nanoparticles.** Belarusian State University, Minsk, Belarus; Institute of Chemistry of New Materials, NAS of Belarus, Minsk, Republic of Belarus; Saint Petersburg Electrotechnical University «LETI», Saint Petersburg, Russia. <https://drive.google.com/file/d/1XX0XFtGSSDI3EzakYlThbkSVO5a3rhFZ/view?usp=sharing>
- 14. A.V. Kulsha. Theoretical limits of basicity in condensed state and in gas phase.** Lyceum of Belarusian State University, Minsk, Belarus.
- 15. K.N. Lapko, N.S. Apanasevich, A.N. Kudlash, A.A. Sokal, Yu.D. Kliaulin, A.Yu. Siomukha. Thermostable heat-insulating materials based on solid phosphate binders and hollow microspheres.** Belarusian State University (BSU), Minsk, Belarus; Research Institute for Physical Chemical Problems of the BSU, Minsk, Belarus. <https://drive.google.com/file/d/11h6I9LTETT73ER2BArIZ809i5fc9HIF8/view?usp=sharing>
- 16. G.A. Mamedova. Hydrothermal crystallization in the natural mineral of Nakhchivan – LiOH + LiCl system.** Institute of Natural Resources, Nakhchivan Department of the Azerbaijan National Academy of Sciences, Nakhchivan, Azerbaijan.
- 17. S.V. Petrichenko, A.M. Yushchishina, O.P. Mitryasova. Electrospark purification of waste waters from heavy metals.** Institute of Impulse Processes and Technologies of NAS of Ukraine, Mykolaiv, Ukraine; Ecology Department, Petro Mohyla Black Sea National University, Mykolaiv, Ukraine. <https://drive.google.com/file/d/1gf86R3EhIaAQkfOYgqNCDb1HuUMzP0t0/view?usp=sharing>
- 18. Y.V. Osika, M.B. Shundalau. Theoretical insights into the low-lying states of the RaF molecule promising for laser cooling.** Faculty of Physics, Belarusian State University, Minsk, Belarus. <https://drive.google.com/file/d/1T03QXOCIUpZt5vcaSaLny7CFU7w-8OZD/view?usp=sharing>
- 19. A.S. Paramonova, I.M. Grigorieva, A.N. Bogatikov, M.M. Degtyarik. Direct synthesis and isolation of complex compounds of Cu(II) nitrate and thiocyanate with 1-ethyltetrazole.** Belarusian State University, Minsk, Belarus; Research Institute for Physical Chemical Problems, Belarusian State University, Minsk, Belarus.
- 20. V. Paientko, A. Matkovsky, L. Babenko, V. Kostur, V. Zadorozniy, O. Yesypchuk, O.I. Oranska, E. Skwarek. Composite materials on the base of zeolite, clay minerals and highly dispersed silica.** Chuiko Institute of Surface Chemistry, NAS of Ukraine, Kyiv, Ukraine; N.G. Khodolny Institute of Botany, NAS of Ukraine, Kyiv, Ukraine; Limited Liability Company «AX MINERAL», Lviv, Ukraine; Naturel Medical Aesthetic, Chernivtsi, Ukraine; Maria Curie-Skłodowska University, Lublin, Poland.
- 21. O.G. Polyachenok, A.A. Iorbalidi, E.N. Dudkina, L.D. Polyachenok. Formation and thermal stability of neodymium hydroxychloride.** Department of Chemistry, Mogilev State University of Food Technologies, Mogilev, Belarus. https://drive.google.com/file/d/1qu9u_o1Q8b5KKX1VkJRVwH8tqWBSInX1n/view?usp=sharing
- 22. O.V. Reva., V.V. Bogdanova, A.V. Vrublevsky. Stability and activating ability of non-aqueous $SnCl_2$ sols.** State Educational Institution «University of Civil Protection» Ministry of Emergency Situations of Belarus, Minsk, Belarus; Research Institute for Physical Chemical Problems, Belarusian State University, Minsk, Belarus.

23. O.I. Salychits. **IR absorption spectra of (2-X)MgO·X(MnO, FeO)·2Al₂O₃·5SiO₂ (X = 0 – 2) ceramic materials.** Belarusian State Technological University, Minsk, Belarus.
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24. Ya.O. Shablovsky. Crystal structure priority controlling topochemical reactions. Gomel State Technical University, Gomel.
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25. G.P. Shevchenko, N.V. Varapay, O.P. Frolova, S.V. Vashchenko. **Synthesis of phosphors based on strontium aluminates codoped with Ce³⁺ and Mn²⁺ ions.** Research Institute for Physical Chemical Problems, Belarusian State University, Minsk, Belarus.
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26. G.P. Shevchenko, Y.V. Bokshits, E.A. Kovel, N.V. Shinkevich, A.V. Mazanik, D.A. Sherban, N.N. Kurney, L.I. Brook, V.A. Zhuravkov. **Luminescent Films for Silicon Solar Cells.** Research Institute for Physical Chemical Problems, Belarusian State University, Minsk, Belarus; BSU, Faculty of Physics, Minsk, Belarus; Institute of Applied Physics, Kishinev, Moldova.
27. L.V. Tabulina, T.G. Rusalskaya, Yu.P. Shaman. **Influence of liquid-phase oxidation treatments on the purity and hydrophilicity of single-walled carbon nanotubes.** Belarusian State University of Informatics and Radioelectronics, Minsk; Technological Center MIET, Zelenograd, Moscow, Russian Federation.
28. A.S. Tsimanenkava, T.G. Shutava, V.V. Pankov. **Metal-organic framework/ magnetite composites for electronic devices.** Belarusian State University, Minsk, Belarus; Institute of Chemistry of New Materials, NAS of Belarus, Minsk, Belarus.
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29. V. Zhuravkov, G. Shevchenko, Y. Tratsiak, H. Shishko. **Luminescent properties of phosphor SrAl₂O₄:Bi₂O₄.** Research Institute for Physical Chemical Problems, Belarusian State University, Minsk, Belarus.
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